

Searching for weakly-coupled, long-lived particles with NA62

Wednesday 17 May 2017 17:10 (20 minutes)

Fixed target experiments are a particularly useful tool in the search of very weakly coupled particles in the MeV-GeV range, which are of interest, e.g. as Dark Matter mediators. The NA62 experiment at the CERN SPS is currently taking data to measure the rare decay $K \rightarrow \pi \nu \bar{\nu}$. Owing to the high beam-energy and a hermetic detector coverage, NA62 also has the opportunity to directly search for a plethora of long-lived beyond-the Standard Model particles. We will detail on status and prospects of these searches

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Session Classification: Session 8